CHAPTER V
CONCLUSIONS

5.1 Conclusions

The model of spinal implant for thoracolumbar has been obtained. The model has resulted the displacement and von Mises stress in each types of loads (flexion, extension, bending, rotation, compress). The highest stress and highest displacement occurs in injured thoracolumbar means the structure of thoracolumbar lack of strength and has unstable motion. Spinal implant for thoracolumbar in this research has decreased the stress in the fracture and the displacement in each types of loads means the thoracolumbar becomes stronger and more rigid after adding the implant. Due to maintaining strength and stability of thoracolumbar, high stress occurs in the implant especially in the pedicle screw.